

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: METALUX

Report Number: P293371

Luminaire Tested: **24GR-LD5-48-F125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293371
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-F125-UNV-L92765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4283.0 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

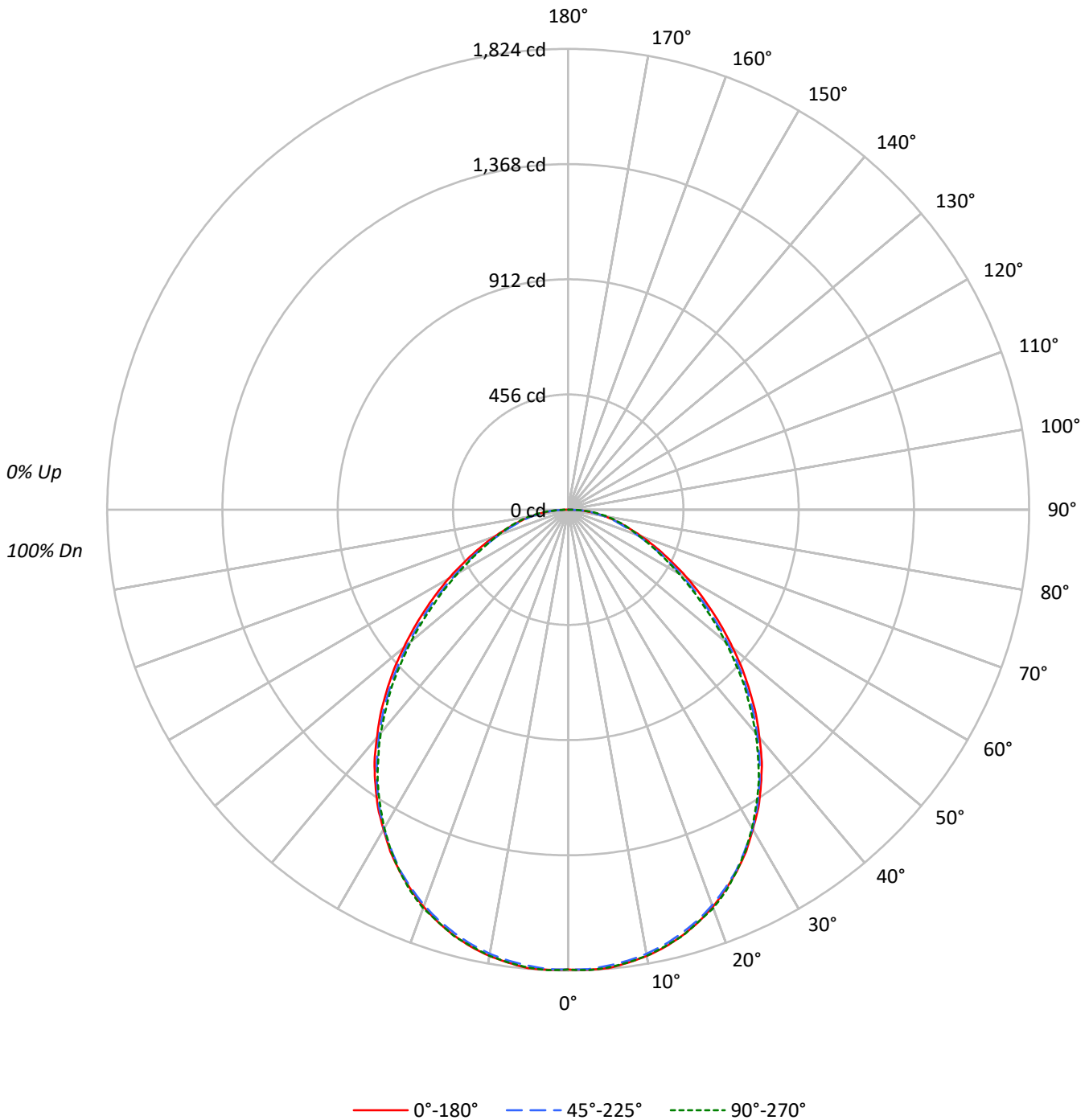
Input Watts (W): 33.201
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2449	2449	2449
5°	2460	2447	2457
10°	2450	2438	2449
15°	2431	2418	2433
20°	2395	2386	2403
25°	2344	2338	2343
30°	2270	2265	2260
35°	2184	2167	2159
40°	2067	2044	2027
45°	1934	1898	1875
50°	1777	1729	1700
55°	1621	1561	1515
60°	1472	1393	1357
65°	1326	1251	1230
70°	1214	1135	1167
75°	1134	1082	1162
80°	1126	1105	1214
85°	1147	1158	1323



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	4.0
10°-20°	489.8	11.4
20°-30°	723.5	16.9
30°-40°	822.6	19.2
40°-50°	768.2	17.9
50°-60°	597.4	13.9
60°-70°	396.4	9.3
70°-80°	229.4	5.4
80°-90°	83.4	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1385.6	32.4
0°-40°	2208.2	51.6
0°-60°	3573.8	83.4
0°-90°	4283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4283.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1820	1820	1820	1820	1820	
5°	1822	1812	1812	1815	1819	173
15°	1745	1737	1736	1735	1747	492
25°	1579	1572	1575	1571	1578	726
35°	1330	1323	1320	1310	1314	830
45°	1016	1008	998	985	986	783
55°	691	681	665	648	646	620
65°	416	404	393	386	386	416
75°	218	213	208	218	224	233
85°	74	73	75	85	86	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1820.3	1820.3	1820.3	1820.3	1820.3
2.5°	1823.0	1817.6	1820.3	1818.3	1824.3
5°	1821.6	1812.2	1811.6	1814.9	1818.9
7.5°	1808.9	1798.9	1800.9	1800.9	1807.6
10°	1793.5	1783.5	1784.8	1785.5	1792.8
12.5°	1772.7	1762.7	1763.4	1762.7	1770.1
15°	1745.3	1736.6	1735.9	1735.3	1746.6
17.5°	1711.8	1699.8	1703.8	1704.5	1710.5
20°	1673.0	1663.6	1666.3	1665.6	1678.3
22.5°	1626.8	1620.1	1622.1	1620.8	1632.8
25°	1578.6	1571.9	1574.6	1571.2	1577.9
27.5°	1524.4	1519.7	1517.0	1515.0	1519.7
30°	1460.8	1458.1	1458.1	1449.4	1454.7
32.5°	1400.5	1391.8	1391.8	1388.5	1385.1
35°	1329.6	1322.9	1319.5	1310.1	1314.2
37.5°	1258.6	1243.2	1241.9	1234.5	1234.5
40°	1176.9	1168.2	1163.5	1155.5	1154.2
42.5°	1099.3	1090.6	1082.5	1069.1	1066.5
45°	1016.2	1008.2	997.5	984.8	985.5
47.5°	933.9	922.5	912.5	897.1	895.1
50°	848.9	840.8	826.1	812.7	812.1
52.5°	769.2	756.5	743.1	727.0	727.0
55°	690.9	680.8	665.4	648.0	646.0
57.5°	615.9	606.5	589.1	576.4	573.1
60°	547.0	533.6	517.5	506.8	504.1
62.5°	478.0	465.9	453.9	443.2	442.5
65°	416.4	403.7	393.0	385.6	386.3
67.5°	360.8	350.1	338.1	336.1	336.7
70°	308.6	297.2	288.5	293.2	296.6
72.5°	259.1	253.1	247.0	253.7	258.4
75°	218.2	212.9	208.2	217.6	223.6
77.5°	180.8	176.7	176.1	184.1	189.5
80°	145.3	140.6	142.6	152.0	156.7
82.5°	110.5	107.1	107.8	119.2	122.5
85°	74.3	73.0	75.0	85.0	85.7
87.5°	39.5	39.5	40.8	46.9	44.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)